

Amendments to the Claims:

The listing of claims provided below will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-17. Withdrawn

18. (Currently amended) A method for identifying a compound that inhibits CD38 enzyme activity comprising (i) contacting a cell expressing CD38 and a chemoattractant receptor with a test compound in the presence of a chemoattractant and substrate and measuring the level of CD38 activity; (ii) in a separate experiment, contacting a cell expressing CD38 and a chemoattractant receptor with a vehicle control in the presence of a chemoattractant and substrate and measuring the level of CD38 activity where the conditions are essentially the same as in part (i); and then (iii) comparing the level of CD38 activity measured in part (i) with the level of CD38 activity in part (ii), wherein a decrease in the level of CD38 activity in the presence of the test compound indicates that the test compound is a CD38 inhibitor.

19. Cancelled

20-23. Withdrawn

24. (Currently amended) The method of claim ~~17~~ 18 wherein CD38 mediated cell migration is measured.

25-34. Withdrawn

35. (New) The method of claim 18, wherein the CD38 enzyme activity is selected from the group of enzyme activities consisting of NAD⁺ glycohydrolase activity, ADP-ribosyl cyclase activity, and transglycosidation activity.

36. (New) The method of claim 35, wherein enzyme activities are measured by monitoring the rate of formation of nicotinamide, ADP-ribose (ADPR), cyclic-ADPR (cADPR), or nicotinic acid adenine dinucleotide phosphate (NAADP).
37. (New) The method of claim 18, wherein the chemoattractant is selected from the group consisting of fMet-Leu-Phe (fMLP), eotaxin, growth-regulated oncogene-1 (GRO-1), interferon-gamma inducible protein-10 kDa (IP-10), stromal cell-derived factor-1 (SDF-1), B lymphocyte chemoattractant (BLC), chemokine ligand-5 (CCL5; Rantes), macrophage-inflammatory protein-1A (MIP-1A), monocyte chemoattractant protein-3 (MCP-3), macrophage-inflammatory protein-3a (MIP3a), interleukin-8 (IL-8), CLS, macrophage-inflammatory protein-3beta (MIP3 β ; ELC), lymphotactin, platelet-activating factor (PAF), leukotriene B4 (Ltb4), complement c5a, and histamine.